

ABSTRACT OF THE DISCLOSURE

The present invention relates to methods of inhibiting the proliferation and/or metastasis of a cancer cell by administering, to the cancer cell, a molecule which increases, in the cell or at the cell surface, the amount of a Bivalent Prostate Carcinoma Tumor Antigen-1 ("B-PCTA-1") protein (referred to as "bivalent" because it comprises both carbohydrate recognition domains ("CRDs")). It is based, at least in part, on the discovery that increased expression of the full-length open reading frame of the PCTA-1 gene suppressed proliferation of tumor cells in soft agar (a characteristic associated with malignancy and tumor metastasis), whereas increased expression of a PCTA-1 gene lacking the second CRD-encoding region had the opposite effect, increasing the anchorage-independent proliferation of the tumor cells.